AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF THE CLAIMS:

1-9. (Canceled).

10. (Previously Presented) A window-integrated antenna in a vehicle, comprising:

a heating conductor field provided for at least one of FM reception, TV reception, and LMS reception; and

at least one decoupling element for at least the LMS reception, the at least one decoupling element including a high-frequency and non-galvanic connection to the heating conductor field, wherein the at least one decoupling element is situated in the heating conductor field between two adjacent heating conductors.

11. (Previously Presented) The window-integrated antenna as recited in Claim 10, wherein the at least one decoupling element is for the FM reception and the TV reception.

12. (Previously Presented) The window-integrated antenna as recited in Claim 11, further comprising:

an FM/TV choke provided in a heating circuit.

13. (Previously Presented) The window-integrated antenna as recited in Claim 10, further comprising:

antenna conductors situated in the heating conductor field substantially perpendicularly to the heating conductors and galvanically linked to the heating conductors.

14. (Previously Presented) The window-integrated antenna as recited in Claim 13, wherein:

the antenna conductors are designed, with regard to at least one of a length and a position thereof, in such a way that a resonance-like behavior of the antenna occurs at a connection end of the at least one decoupling element in an FM range.

15. (Previously Presented) The window-integrated antenna as recited in Claim 10, wherein the at least one decoupling element includes at least one of a straight-line conductor, an open conductor loop, and a closed conductor loop.

16. (Previously Presented) The window-integrated antenna as recited in Claim 10, wherein a grounding point for decoupling at least one of an LMS antenna signal, an FM antenna signal, and a TV antenna signal is located in a proximity of a connection end of the at least one decoupling element.

17. (Previously Presented) The window-integrated antenna as recited in Claim 10, wherein at least one further FM/TV antenna signal decoupling is provided that is galvanically linked to the heating conductor field, and to a busbar situated at a distance from a connection end of the at least one decoupling element.

18. (Previously Presented) The window-integrated antenna as recited in Claim 10, wherein a distance of the at least one decoupling element to one of the heating conductors is selected to be so close that a capacitive coupling with the heating conductor is ensured for FM/TV frequencies.

19. (Previously Presented) The window-integrated antenna as recited in Claim 18, wherein the at least one decoupling element includes one of a straight-line conductor and a conductor loop.

20. (New) The window-integrated antenna as recited in Claim 10, further comprising:

an FM/TV choke provided in a heating circuit; and

antenna conductors situated in the heating conductor field substantially perpendicularly to the heating conductors and galvanically linked to the heating conductors;

wherein the at least one decoupling element is for the FM reception and the TV reception, and

wherein the antenna conductors are designed, with regard to at least one of a length and a position thereof, so that a resonance-like behavior of the antenna occurs at a connection end of the at least one decoupling element in an FM range, and

wherein the at least one decoupling element includes at least one of a straight-line conductor, an open conductor loop, and a closed conductor loop.

21. (New) The window-integrated antenna as recited in Claim 20, wherein:

a grounding point for decoupling at least one of an LMS antenna signal, an FM antenna signal, and a TV antenna signal is located in a proximity of a connection end of the at least one decoupling element,

at least one further FM/TV antenna signal decoupling is provided that is galvanically linked to the heating conductor field, and to a busbar situated at a distance from a connection end of the at least one decoupling element,

a distance of the at least one decoupling element to one of the heating conductors is selected to be so close that a capacitive coupling with the heating conductor is ensured for FM/TV frequencies, and

the at least one decoupling element includes one of a straight-line conductor and a conductor loop.

22. (New) The window-integrated antenna as recited in Claim 10, wherein:

a grounding point for decoupling at least one of an LMS antenna signal, an FM antenna signal, and a TV antenna signal is located in a proximity of a connection end of the at least one decoupling element,

at least one further FM/TV antenna signal decoupling is provided that is galvanically linked to the heating conductor field, and to a busbar situated at a distance from a connection end of the at least one decoupling element,

a distance of the at least one decoupling element to one of the heating conductors is selected to be so close that a capacitive coupling with the heating conductor is ensured for FM/TV frequencies, and

the at least one decoupling element includes one of a straight-line conductor and a conductor loop.